

From: [Craig Carroll](#)
To: [John Martin](#); [Althea Foster](#)
Cc: [Paige Delgado](#); [R6 DWH REOC RIC@EPA](#)
Subject: Fw: Maps
Date: 05/18/2010 07:22 AM

John,

Please make sure we get these maps for Dana today. Thanks

Craig Carroll
Chief, Emergency Readiness Section
EPA Region 6
Ph: 214-665-2220
Fax: 214-665-9718

----- Forwarded by Craig Carroll/R6/USEPA/US on 05/18/2010 07:21 AM -----

From: Al Armendariz/R6/USEPA/US
To: "Sam Coleman" <Coleman.Sam@epamail.epa.gov>, "Mr. Mark Hansen" <Hansen.Mark@epamail.epa.gov>, "Craig Carroll" <Carroll.Craig@epamail.epa.gov>, "Susan Webster" <Webster.Susan@epamail.epa.gov>, "Nancy Jones" <Jones.Nancy@epamail.epa.gov>, "Steve Mason" <Mason.Steve@epamail.epa.gov>
Date: 05/18/2010 06:06 AM
Subject: Re: Fw: Maps

Hi Sam,
Can we assist Dana and her staff so that she can get the dispersant maps and quantities from her office in DC?

Thanks

Al

Al Armendariz
Regional Administrator
U.S. EPA
Region 6
armendariz.al@epa.gov
mobile: 972-467-5506
▼ [Richard Windsor](#)

----- Original Message -----

From: Richard Windsor
Sent: 05/18/2010 06:25 AM EDT
To: Dana Tulis
Cc: Al Armendariz; Alecia Allston; Allyn Brooks-LaSure; Arvin Ganesan; Barbara Bennett; Barry Breen; Beth Zelenski; Bob Perciasepe; Bob Sussman; Candace White; Carla Veney; Caroline Brown; Christopher Busch; Cindy Huang; Craig Hooks; Dale Perry; David Gray; Debbie Dietrich; Diane Thompson; Donald Maddox; Ellyn Fine; Erica Canzler; Franklin Hill; Gilberto Irizarry; Gina McCarthy; Heidi Ellis; Janet Woodka; Jody Ramsey; John Neville; Kathy Jones; Layla Mansuri; Mary-Kay Lynch; Mathy Stanislaus; Mike Shapiro; Nanci Gelb; Nelida Torres; Nena Shaw; Paul Anastas; Peter Silva; Robert Goulding; Sam

Coleman; Sarah Pallone; Scott Fulton; Seth Oster; Shane Hitchcock; Stan Meiburg; Stephanie Washington

Subject: Re: Fw: Maps

Are we able to link to these from our dispersant website? That would be helpful to the public I think.

▼ Dana Tulis---05/15/2010 12:13:38 PM---For everyone's reference, please see the attached maps from the aerial application. There will be 2

From: Dana Tulis/DC/USEPA/US

To: Al Armendariz/R6/USEPA/US@EPA, Alecia Allston/DC/USEPA/US@EPA, Allyn Brooks-LaSure/DC/USEPA/US@EPA, Arvin Ganesan/DC/USEPA/US@EPA, Barbara Bennett/DC/USEPA/US@EPA, Barry Breen/DC/USEPA/US@EPA, Beth Zelenski/DC/USEPA/US@EPA, Bob Perciasepe/DC/USEPA/US@EPA, Bob Sussman/DC/USEPA/US@EPA, Candace White/DC/USEPA/US@EPA, Carla Veney/DC/USEPA/US@EPA, Caroline Brown/DC/USEPA/US@EPA, Christopher Busch/DC/USEPA/US@EPA, Cindy Huang/DC/USEPA/US@EPA, Craig Hooks/DC/USEPA/US@EPA, Dale Perry/DC/USEPA/US@EPA, David Gray/R6/USEPA/US@EPA, Debbie Dietrich/DC/USEPA/US@EPA, Diane Thompson/DC/USEPA/US@EPA, Donald Maddox/DC/USEPA/US@EPA, Ellyn Fine/DC/USEPA/US@EPA, Erica Canzler/DC/USEPA/US@EPA, Franklin Hill/R4/USEPA/US@EPA, Gilberto Irizarry/DC/USEPA/US@EPA, Gina McCarthy/DC/USEPA/US@EPA, Heidi Ellis/DC/USEPA/US@EPA, Janet Woodka/DC/USEPA/US@EPA, Jody Ramsey/DC/USEPA/US@EPA, John Neville/DC/USEPA/US@EPA, Kathy Jones/DC/USEPA/US@EPA, Layla Mansuri/R6/USEPA/US@EPA, Mary-Kay Lynch/DC/USEPA/US@EPA, Mathy Stanislaus/DC/USEPA/US@EPA, Mike Shapiro/DC/USEPA/US@EPA, Nanci Gelb/DC/USEPA/US@EPA, Nelida Torres/DC/USEPA/US@EPA, Nena Shaw/DC/USEPA/US@EPA, Paul Anastas/DC/USEPA/US@EPA, Peter Silva/DC/USEPA/US@EPA, Richard Windsor/DC/USEPA/US@EPA, Robert Goulding/DC/USEPA/US@EPA, Sam Coleman/R6/USEPA/US@EPA, Sarah Pallone/DC/USEPA/US@EPA, Scott Fulton/DC/USEPA/US@EPA, Seth Oster/DC/USEPA/US@EPA, Shane Hitchcock/R4/USEPA/US@EPA, Stan Meiburg/R4/USEPA/US@EPA, Stephanie Washington/DC/USEPA/US@EPA

Date: 05/15/2010 12:13 PM

Subject: Fw: Maps

For everyone's reference, please see the attached maps from the aerial application. There will be 2 more emails that show the maps from other dates.

Thanks,
Erica

Dana S. Tulis
Acting Office Director
Office of Emergency Management
Environmental Protection Agency
202-564-8600

----- Forwarded by Dana Tulis/DC/USEPA/US on 05/15/2010 12:13 PM -----

From: Al Armendariz/R6/USEPA/US

To: "Dana Tulis" <Tulis.Dana@epamail.epa.gov>

Date: 05/15/2010 12:02 PM

Subject: Maps

Going to fwd you 2 emails, each with 2 attachments.

Can you please send around?

Thanks

Al

Al Armendariz
Regional Administrator
U.S. EPA
Region 6
armendariz.al@epa.gov
mobile: 972-467-5506

▼ Steve Mason

----- Original Message -----

From: Steve Mason
Sent: 05/15/2010 10:50 AM CDT
To: Al Armendariz
Cc: Eric Delgado; Sam Coleman
Subject: Re: Fw: Map question -- Re: Deepwater Horizon
Situation Update #17
I have not seen a combined map....

I am going to send you the maps I will send you both the .jpg and the .pdf file for each day that we have....

[attachment "DispersantsAllThrough05_12_2010FinalC.jpg" deleted by Al Armendariz/R6/USEPA/US]

[attachment "DispersantsAllThrough05_12_2010FinalC.pdf" deleted by Al Armendariz/R6/USEPA/US]

Faithfully yours
Steve

"Frequently, my thoughts get bored and walk down to my mouth. Often, this is a bad thing."

Steve Mason, EPA Region 6 (6SF-PE)
1445 Ross Avenue, Dallas, TX 75202
214-665-2276 / 214-665-2278 fax

▼ Al Armendariz---05/15/2010 10:37:51 AM---Eric and Steve, Thanks for the map assistance. Is there a combined map of 5/4 through recently, and

From: Al Armendariz/R6/USEPA/US

To: Eric Delgado/R6/USEPA/US@EPA, Steve Mason/R6/USEPA/US@EPA
Cc: Sam Coleman/R6/USEPA/US@EPA
Date: 05/15/2010 10:37 AM
Subject: Re: Fw: Map question -- Re: Deepwater Horizon Situation Update #17

Eric and Steve,

Thanks for the map assistance. Is there a combined map of 5/4 through recently, and if so, can you email to me like the one you sent last night.

If not, if instead the maps are in individual days, send me them individually via email if they aren't too big for the server.

I am going to be driving down to Houma now for the over-flight.

Thanks.

Al

-----Eric Delgado/R6/USEPA/US wrote: -----

To: Al Armendariz/R6/USEPA/US@EPA
From: Eric Delgado/R6/USEPA/US
Date: 05/14/2010 11:51PM
cc: delgado.paige@epa.gov
Subject: Re: Fw: Map question -- Re: Deepwater Horizon Situation Update #17

Dr. Al

Here is a Google Earth file of dispersant applications from 4/27 - 5/4. I have worked a protocol with the air ops team in Houma to facilitate a more efficient spatial data exchange and hope to receive the flight paths less than 24 hours after each run.

Thanks,

Eric Delgado
Federal On-Scene Coordinator
US EPA Region 6
1445 Ross Ave (6SF-PR)
Suite 1200
Dallas, TX 75202
214-437-9809
Fw: Map question -- Re: Deepwater Horizon Situation Update #17

Fw: Map question -- Re: Deepwater Horizon Situation Update #17

Paige Delgado

to:

Eric Delgado

05/14/10 10:29 PM

Sam Coleman

----- Original Message -----

From: Sam Coleman

Sent: 05/14/2010 09:15 PM EDT

To: Al Armendariz; Paige Delgado; Ronnie Crossland; Craig Carroll

Subject: Re: Map question -- Re: Deepwater Horizon Situation Update #17

We have the maps. I didn't say anything since you committed to get to Bob. The files are large so Steve Mason has on his hard drive for you. We have up to 5/12.

We also have these posted on the web on a secure site. I am checking if they can be made public.

Samuel Coleman, PE
Superfund Div Region 6
214.665.6701 Ofc
214.789.2016 Cell

Sent by EPA Wireless E-Mail Services
Al Armendariz

----- Original Message -----

From: Al Armendariz

Sent: 05/14/2010 09:03 PM EDT

To: Paige Delgado; Sam Coleman; Ronnie Crossland; Craig Carroll; Sam Coleman

Subject: Map question -- Re: Deepwater Horizon Situation Update #17

Sam,

Can I please get an electronic copy of the map described in the update under operations from Houma, which shows dispersant application areas?

Thanks

Al
Al Armendariz
Regional Administrator
U.S. EPA
Region 6
armendariz.al@epa.gov
mobile: 972-467-5506
Paige Delgado

----- Original Message -----

From: Paige Delgado

Sent: 05/14/2010 02:37 PM CDT

To: Althea Foster; bhattacharya.dipanjana@epa.gov; Chris Petersen; Craig Carroll; Daniel Odem <Daniel.Odem@LA.GOV>; Eric Delgado; Eric Paisley; Gary Moore; James Staves; Joe Schaefer; John Martin; Karen McCormick; Laura Hunt;

Lindsay.maloan@la.gov; Maria Martinez; Mark Hansen; Matt Hubner; Mike McAteer; Monica Smith; Nancy Jones; Nicolas Brescia; Patrick Young; R6 DWH REOC PSC; Richard Mayer; Ronnie Crossland; Steve Mason; Susan Webster; Terry Burton; Warren Zehner; Al Armendariz; Ben Harrison; Betty Brousseau <Betty.Brousseau@LA.GOV>; Betty Williamson; Carl Edlund; Carmen Assunto; Chad Nitsch; Charles Faultry; Chris Petersen; Craig Carroll; Cynthia Fanning; Dana Tulis; daniel.odem@la.gov; Dave Mickunas; Dave Wright; David Bary; David Gray; David Neleigh; Debbie Dietrich; Deborah Ponder; Diane Taheri; Edwin Quinones; EOC Situation Unit; Eugene Lee; Gary Miller; Gilberto Irizarry; Ivan Vikin; Jeannine Hale; jeff.meyers@la.gov; Jeffrey Clark; John Blevins; Kenneth Buchholz; Kevin Mould; Lawrence Starfield; Lisa Boynton; Lourdes.Iturralde@LA.GOV; Lynda Carroll; Mark Hansen; Mark Hansen; Markj Thomas; Matt Taylor; michele.laur@wdc.usda.gov; Miguel Flores; Minerva Rojo; Myron Knudson; Pam Phillips; Paulette Johnsey; peggy.hatch@la.gov; R6 OSC; Richard Wayland; Ronnie Crossland; Sam Becker; Sam Coleman; Scott Hayes; Shane Hitchcock; Sherry Fielding; Stephen Gilrein; Steve Page; Susan Webster; Suzanne Murray; Timothy Curry; Vernon Jackson; William Honker; William Luthans; Wren Stenger
Subject: Deepwater Horizon Situation Update #17

Deepwater Horizon Incident, Gulf of Mexico
Region 6 REOC Update

Subject:
Region 6 Update # 17
Deepwater Horizon Incident,
Gulf of Mexico
Date: May 14, 2010
To: Incident Command
Thru: Planning Section
From: Situation Unit
Operational Period: May 13, 2010 2401 - May 13, 2010 2400
Reporting Period: May 13, 2010 2401 - May 14, 2010 1300

1. Background
Site Name:
Deepwater Horizon Incident

FPN#:
N10036

Mobilization Date:
4/27/2010

Start Date:
4/28/2010

2. Current Situation
Incident Status Summary as reported by NOAA for 5/13:
Total response vessels: 526
Containment boom deployed: over 1.1 million feet
Containment boom available: over 300,000 feet
Sorbent boom deployed: over 320,000 feet
Sorbent boom available: over 850,000 feet
Boom deployed: over 1.4 million feet (regular plus sorbent and fire boom)
Boom available: over 1 million feet (regular plus sorbent and fire boom)

Oily water recovered: more than 5 million gallons
Dispersant used: over 475,000 gallons
Dispersant available: more than 215,000 gallons
Overall personnel responding: more than 13,000.

2.1 (USCG) Incident Command Post (Houma, LA)

EPA received the sampling approach from ERT for air sampling to evaluate the air impact from dispersant application. Also coordinated with federal partners and RP contractors on sampling approach.

ICS 213 for ERT sampling activities was signed off by Unified Command and submitted to the NPFC case officer for PRFA amendment.

Participated on conference call with EPA HQ, Region 4, and Region 6 on waste management issues and continued coordination with BP waste representatives on the BP waste plan.

Due to weather conditions and new dispersant application rules, no dispersants are expected to be applied for 5/14 and 5/15.

SCAT ground teams confirmed reports of new oil found on lands in the area of Fourchon, LA.

In response to report of fumes causing evacuation of manned platforms off of SE Pass on May 12th a map was prepared of the aerial dispersant spray showing the location, quantities and start/stop times. This graphic clearly indicated that aerial dispersant operations were 50 nautical miles from the subject platform and therefore were not the cause of the reported incident. Additionally, the US Air Force Reserve prepared a drift chart to show at a maximum crosswind of 30 knots the drift for a C-130 would only travel ½ mile. Dispersant spraying is always done into the wind which would reduce drift to much less than ½ mile. Aerial dispersant operations map attached.

Vietnamese community Outreach Coordinator, Lisa Pham, completed translations for storage and transportation of recovered oil and booming tactics.

EPA representative responded to inquiries from the White House Initiative on Asian American and Pacific Islanders regarding issues facing those Vietnamese fishermen in the Gulf Coast.

2.2 (USCG) Area Command Post (Robert, LA)

The Area Command Environmental Unit leadership continues to coordinate overall strategies for monitoring subsurface dispersed oil plumes.

2.3 Air Monitoring/Sampling

EPA continues to conduct air monitoring and sampling in Venice operations area (VOCs and Particulates):

- o Venice, LA - 29.25274 N, 89.35750 W - V02;
- o Boothville, LA - 29.31449 N, 89.38433 W - V03;
- o Fort Jackson, LA - 29.35699 N, 89.45487 W - V05.

EPA continues to conduct air monitoring and sampling in Chalmette operations area (VOCs and Particulates):

- o Poydras, LA - 29.86609, -89.89108 - C02 - located at Fire Station number 8;
- o Chalmette, LA - 29.96082, -90.00132 - C04 - located at Fire Station on Aycock St.
- o Hopedale, LA, - 29.84049, -89.68980 - C05 located at Fire Station number 11.

Each air monitoring location has 5 pieces of air equipment:

DataRAM - monitoring particulate matter PM10 (Serve as back-ups to EBAMs);

EBAM (Particulate Monitors)-equipment will replace DataRAM's;

- o AreaRae/MultiRae - monitoring VOCs;
- o PQ200 - samples for PM2.5;
- o SUMMA Canisters per location - sample for VOCs.

All air monitoring/sampling stations are monitored throughout the day (24 hours) for immediate reporting of any elevated VOC or particulate levels. The maximum reading is reported to the OSC at Area Command Post in Venice and Chalmette.

Real-time air monitoring data from midnight to midnight each day is reviewed for field QA and uploaded into SCRIBE by 1200 each day and available to EPA Headquarters.

The EBAM at location V03 stopped running at 0334 due to low battery voltage. The unit was restarted at 0355. No data gap is expected.

Venice reported action level exceedences (0.5 ppm) for H2S at station V03. The highest level reported was 0.66 ppm.

EPA summary of air monitoring/sampling activities:

Air Monitoring & Samples
DataRAM (PM10)
AreaRae
SUMMA Canisters
PM2.5
TOTALS FOR 5/12

Venice
3 locs/24-hr
3 locs/24-hr
9
3
12

Chalmette
2 locs/24-hr
3 locs/24-hr
6
3
9

TOTAL TO DATE
6 locs/24-hr
6 locs/24-hr
188
78

*QAQC samples not included in sample count

2.4 Water/Sediment Sampling

EPA continues to conduct water and sediment sampling at locations provided by EPA Headquarters and selected through National Coastline Condition Assessment (NCCA) program. The NCCA sample locations are sampled every four years by state agencies with U.S. Coastlines. Sample parameters and locations were also selected in coordination with the EPA Region 6 Water Quality Division.

Representatives from the Water Division and the REOC Environmental Units from R6 and R4 conduct a conference call three times a week with the HQ EOC to discuss the coordination and consistency of water and sediment sampling across the Deepwater Horizon Incident Response.

On 5/13, Chalmette water operation team continued operations, launching from Cocodrie, Terrebonne Parish, and traveling to Caminada Bay (SE Lafourche Parish) area to collect water and sediment samples. No oiled wildlife, oil, or odors observed.

On 5/14, the Water Operations Team will depart from Cocodrie, LA, and travel west to collect samples from pre-identified locations. They will collect all of the pre-identified locations by 5/15, weather permitting.

Venice did not conduct water operations on 5/13. On 5/14, water operations will focus on the collection of oil/water composite samples near-shore and samples of oil from the beach.

EPA summary of water/sediment activities:

Water/Sediment Samples

Water
Sediment
TOTALS FOR 5/12

Venice
0
0
0

Chalmette
2
2
4

TOTAL TO DATE
69
61

*QAQC samples not included in sample count
2. 5 TAGA
TAGA 1553 has been requested to conduct monitoring on 5/13 and 5/14.

2.6 ASPECT
On 5/13, no ASPECT missions were flown.
2.7 Water Quality Protection Division Update
. Water Quality Protection Division situation update is attached.
3. EPA Assets
3.1 Current Assets Deployed
Activated in Dallas, TX
REOC activated
SRICT activated
RRT activated

Deployed Personnel

Personnel
Dallas, TX
Venice, LA
Robert, LA
Houma, LA
New Orleans, LA
Chalmette, LA
Slidell, LA
TOTALS

EPA

- OSC
3
1

1

1

6

- RSC
5

1
1

7

- PIO

3

3

- Other
3

2
1
1
1

8

START
5
11

16

32

ERT Contractor

1

1

TAGA Personnel

5
5

ASPECT Personnel

4

4

Other

TOTALS

16

13

6

3

1

18

9

66

Deployed Equipment

Equipment

Dallas, TX

Venice, LA

Robert, LA

Houma, LA

New Orleans, LA

Chalmette, LA

Slidell, LA

TOTALS

Mobile Command Post

1

1

ASPECT

1

1

TAGA Bus

1

1

LRV

1

1

2

Gooseneck Trailer

1

1

20 KW Generator

1

1

* One TAGA bus has been assigned to Region 4 Operations
4. Daily Cost Estimates

Est. Personnel Cost
Est. Travel Cost
Est. Contracts/Purchase Spent
Total Est. Cost/Spent
Total Contract/ Purchase Oblig.
Total USCG PRFA Ceiling
Balance
Est. Daily Burn Rate
Days left

USCG PRFA FPN N10036
\$219,000
\$87,117
\$1,663,000
\$1,969,117
\$3,158,713
\$4,420,084
\$2,450,967
\$148,100
17

TOTAL EPA FUNDED
\$219,000
\$87,117
\$1,663,000
\$1,969,117
\$3,158,713

\$4,420,084
\$2,450,967
\$148,100
17

Region 6 Indirect Rate 13.12%

\$579,916

Louisiana Total
\$219,000
\$87,117
\$1,663,000
\$1,969,117
\$3,158,713
\$4,420,084
\$2,450,967
\$148,100
17

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[attachment "Deepwater Horizon REOC Situation Report_17.pdf" deleted by Al Armendariz/R6/USEPA/US]

[attachment "WQ Situation Update #10 _5_13_2010_.pdf" deleted by Al Armendariz/R6/USEPA/US]

[attachment "Deepwater Horizon REOC Situation Report_17.doc" deleted by Al Armendariz/R6/USEPA/US]

[attachment "Dispersant Flight Paths 42710 - 5410.kmz" removed by Al Armendariz/R6/USEPA/US]